DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
Centers for Disease Control
Center for Infectious Diseases
Atlanta, Georgia 30333

GUIDE TO INVESTIGATION OF INFANT BOTULISM

	A. EPIDEMIOLOGIC (OBTAIN PRINCIPALLY FROM PARENT(S)													
	Name (Last) (First)								Date	Mo.	Da	y \	Yr.	
									of Birth			$\neg \Gamma$	\top	
	SEX (7) RACE/ETHNICITY (8)								7	(1-2)	(3-	4) (5-6)	
_		America S America								an Indian or Alaska native				
DATA	2 Female 2			City	or Pacific Islan	der	6	Unknow	wn					
۵	ADDRESS (No. and		•	County		State (9-1	0)	Phone						
VAL														
PERSONAL	MOTHER'S AGE (1	FA	THER'	S AGE	(14-15)	OCCUPATIO	CCUPATION (16)							
Ā														
	EDUCATION (17)				i r	JCATI	ON (18)							
	1 Some grade so 2 Grade school	· -		ge/Trade so	! r	_	ne grade				Jr. Colle			
	2 Grade school 3 Some high sch		raduati	graduat e	2 L 3 [_	ide schoo ne high s	ol graduate	school graduate 6 College graduate					
	4 High School g		digh e r	å, ecce (e	14 5	_	_	graduate		_	College (Higher	racual	16	
	NO. OF PREGNANC	TIFS (19)			T									
≥	(including case)				NO. OF LI	VE BI	RTHS (2	20)	-					
AND HISTORY	TYPE OF DELIVER	Y: (21) 1 VAGIN	Δı	2 C C	SECTION									
AND HIST	Complications				Unknown	_								
	If yes, describe (23)_					Was	infant p	remature? (2	24) 1 Yes 2 No 9 Unk					
RAI TAT	If yes, ge stational								age (25-26)_			٠		
MATERNAL PERINATAL]		. •		Weeks				
₹ ₩	What was infant's birth							fant's birth w	reight;				_	
											oz. 9-30)	(Gms	•	
,					LNESS – INI				· · · · · ·				T	
ESS)		ONSET OF CONSTI	PATIC	ON OR IF	NO CONSTI	PATIO	ON WH	EN MOTHE	R SAYS C	HILD	BECAN	AE IL	IJ	
S.	BEFORE ONSET OF Was infant ever breas	FPRESENT ILLNESS 1 fed? (35) 1	'es 2	□ No	M 4 b									
Ξ	Was infant ever form		'es 2	□ No	If yes, for how	many	weeks	(36-37)						
ENT		(more than 50%) (39) 1			2 Formul	s fad	з [Roth sonro	ximately equ	.albe				
ESE		taste (before onset of ill					-	J DOWN BPPIO	Annotery equ	20119				
PRES					ONCE OR			DAILY OR						
r of		FOOD/LIQUID	,	NEVER 1	A FEWTIME		3	MOST DAYS			CIPAL	D		
DIETARY HISTORY (BEFORE ONSET		Formula Cow's Milk (Past.)	(40) (42)										(41)	
8		Unpasteurized (raw		_	_		_ [_	1					
RE		milk) Fruit juices	(43) (44)			1			l					
F.	·	Cereal	(45)			Ì	5 ·	ŏ						
8		Bread Sugar fundas	(46)		0	ı	ᄆᆝ							
¥		Syrup/water (47) Honey/water (49) Sugar/water (51)					H	ä					_ (48) _ (50)	
2					Ō			0					,	
HIS		Tea/water Fruits, cooked	(52) (53)	무		1	片							
∑		Fruits, raw (54)			ă	-	ŏ l	ŏ	1					
Ā		Vegetables, cooked	(55)		므	I								
Ĕ	•	Vegetables, raw Home-canned foods	(56) (57)	ᆸ		1	0	2						
ט	Other	Baby Foods (Jars)	(58)	g	00000000000000000	i		000000000000000						
	Other		(59)	·U	U			U						

	T								
DIETARY	Dietary History (Cont's		_	_		-	_		
T O	Did infant use a pacifer						∐ No	_	
HIS	If yes, was it ever di	pped in: (61)	1 🔛 Syrup	2 📙	Honey	3 Other		_4 LJ Not	thing
	Wore inferes we all have				 	<u> </u>			
	Were infant's usual bow	ei movements: (6)			nore per day	3 Every of	·		+
			ليا	One per c	day	4 Less tha	n every other day		
Ξ	Illness prior to onset of	present illness (int	fant botulism)						
Y IT BOTULISM)			Yes	No	Unk				
			1	2	9	Age in weeks			
		Fever (>101°F)	(63)	0	<u>.</u>	(
		Cold(s)	(66)		0		57-68) wks.	(69-70)	
6 ₹		Constipation (Mother's opinion	(71)			(7	·2·7 3)		
Z Z		Diarrhea	, (74) 🔲			(7	1E-7E1		
Ξ,μ	ŀ	(Mother's opinion					2-761		
Χ×	İ	Other	(77)						
INFANT'S MEDICAL HISTORY (PRIOR TO ONSET OF INFANT	Did infant receive antib	inting suint to annu				[] v		4-1	
₹6		iotics prior to onse	torpresentii	iness (in	rant potulism).	/ (78) 1 Yes	2 NO 9 L	ink.	
15 T	If yes, give						ROUTE	DURATION	
ZK	AGE (IN WE	KS) F	REASON		DRUG	(0	Oral, Parenteral or Both)	(Days)	
₹ E	(79	80)	(8:	1)		(82)		(83)	(84-85)
2 5	•								
	(93	94)	(9	5)	 	(96)		(97)	(98-99;
ENVIRONMENTAL HISTORY (PRIOR TO ONSET OF INFANT BOTULISM)	If yes, describe (101) Was parent(s) involved in the second of the secon	n gardening or yard	d work from b	oirth of i	nfant until ons	et of present illnes	5? (202) 1 Yes		
VESS	a) Mother first noted in)			Mo. Da	Y Yr.	, at weeks o	f age.	
3	(115) Second sympt	om			Mo. Da	y Yr.			
SENT !	b) The initial visit to a p	hysician was on			6-117) (118-		, at weeks (122-123)	of age?	
SYMPTOMS OF PRESENT ILLNESS (INFANT BOTULISM)	c) Infant was hospitalize	ed on			Mo. Da 4-125) (126-	Yr. 127) (128-129)	, at weeks (of age?	
₹ ĕ	d) Symptoms noted bef	ore patient hospita	lized:		•	,	-		
٥٤									
P K			Yes No	Unk. 9	Mo.	Day Yr.	Weeks old		
Z Z					. [
	Constipation (132)	ע ע		(133-134)	(135-136) (137-1	(139-140)	*	
	A				1224 664	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Poor feeding (141)			1. ** * # # # # # # # # # # # # # # # # #	(Sympto	ms cont'd on next page)	
									

	d) Symptoms noted before patient hospitalized: (Cont'd)							
	Yes No Unk 1 2 9							
•								
	Irritable (143)							
=	Poor Head Control (144)							
BOTULISM)	General Weakness (145)							
Ţ	Difficulty Breathing (146)							
7 BG	Fever (147)							
A	Other (148)							
S								
OF PRESENT ILLNESS (INFANT	If infant had constipation, how many bowel movements were occurring? (149)							
Z	1 Two or more per day 2 One per day 3 One every other day 4 Two-thro							
11 11	5 One per week 6 Less than one per week 7 Other							
SEN	Interviewee(s) (150) 1 Mother 2 Father 3 Both 4 Other							
PRE	Interviewer: (Name)							
96								
SMC	(Agency) (152)							
SYMPTOMS	Are there problems with this case history form (153)	1 Yes 2 No						
SYI	If yes, describe							
								
			 					
	B. HOSPITALIZATION DATA (OBTAIN PRINCIPALLY FROM MEDICAL REC	CORD OR PHYSICIAN)						
	B. HOSPITALIZATION DATA (OBTAIN PRINCIPALLY FROM MEDICAL REC	, on both in the contract of t						
	Hospital where diagnosis established Medical Record No.							
	Name (154) Address	Pho	ne					
d	Primary Physician(s)	Pho	ne					
DATA	·							
HOSPITAL	Mo. Day Yr.							
HOS	Date of first hospital admission							
_	(155-156) (157-158) (159-160)) 						
	Date of last hospital discharge (161-162) (163-164) (165-166							
	(100.100) (100.100)	•						
	Total dayshospitalization (167-168)							

	Symptoms and Physical Findings observed at any time during illner	ss:	Yes	No	Unk.	•
	Loss of facial expression	(169)	ò	Î	ů	
	Ptosis	(170)				
	Extraocular muscle palsies	(171)				
	Pupils dilated	(172)				
	constricted	(173)				
	sluggish pupil reactivity	(174)				
	Trouble swallowing	(175)				
	Constipation	(176)				
	Diarrh ea	(177)				
	Altered cry	(178)				
••	Weak sucking	(179)				
PHYSICAL FINDINGS	Muscle weakness					
Š	Poor head control .	(180)				
1	Upper extremeties	(181)				
Sic	Lower extremeties	(182)				
₽¥	"Floppy"	(183)				
-	Knee Deep Tendon Reflex		_	_		
	Absent	(184)				
	Daprassed	(185)				
	Somnolent	(186)				
	Irritabl e	(187)				•
	Fever	(188)				
	Dehydration	(189)				
	Respiratory difficulty	(190)				
	Respiratory arrest	(191)				
	Pneumonia	(192)				
	Other	_ (193)			ب	
						No. of
	Respiratory Assistance Needed	(194)	Ġ	Ž	<u>ំ</u>	, Days
	Oxygen only	(197)				(600 500)
	. Oxygen only	(198)				
Z	Tracheostomy	(199)				
T ME	Ventilator	(200)				
TREATMENT	Infant feeding	·•	_			
F	Feeding tube	(201)				No. of Days
	. 3.2	-				(202-203)
	1					

	Treatment (Cont'd.) Antibiotics Given:									
TREATMENT	Drug	Oral or Parenteral	Dose (Gms/day)	Duration (days)	Date started Mo. Day					
	(204)	(205)	(206-208)	(205-210)	(211-214)					
	(215)	(216)	(217-21 9)	(220-221)	(222-225)					
	(226)	(227)	(228-230)	(231-232)	(233-236)					
	(237)	(238)	(239-241)	(242-243)	(244-247)					
		Was antitoxin given? (248) 1 Yes 2 No								
	If yes, give route of admin	istration (249) 1 I.V.	2 I.M. 3 Both	9 Unk.						
	If yes, how many C.C. Tot	al (Connaught Adult 10cc/vial,	Connaught Ped. 2cc/vial	\						
	Total cc (250-5	1)								
	Other specific therapeutic medica	ition given: (252)								
	Was a spinal tap done? (253) 1 Yes 2 No 9 Unk. Date L254-259)									
	Was spinal tap reported as normal? (260) 1 Yes 2 No 9 Unk.									
	Spinal fluid proteinmgm% (261-263)									
	Total number of white cells (264-266) Mo. Day Yr.									
	Was a Tensilon test done? (267) 1 Yes 2 No 9 Unk. Date (268-273)									
	If yes, results (274) 1 Pos. 2 Neg. 3 Equivocal 9 Unk.									
TS	Was an EMG (electromy ography) done? (275) 1 Yes 2 No 9 Unk. Date (276-281)									
STIC TESTS	If yes, was it interpreted as compatible or diagnostic of botulism? (282) 1 Yes 2 No 3 Not sure 9 Unk.									
DIAGNOSTI	If EMG done, was BSAP noted? (283) 1 Yes 2 No 9 Unk.									
ā	Source of hospitalization data: (284)									
	1 Physician 2 Medical Record 3 Both 4 Other									
	Hospitalization section completed	l by:								
!	Name Title (285)									
	Name			(200)						
	Agency (286)		Phone No		Date					
					•					

C. SPECIMEN TESTING FOR C. BOTULINUM (OBTAIN FROM MEDICAL RECORDS, STATE LABORATORY, OR CDC BOTULISM LABORATORY)											
Serum sample for toxin: (287) 1 Type A 2 Type B 3 Type E 4 Neg 5 Not tested 6 Toxic but not typed											
Stool sample: (288) 1 Type A 2 Type B 3 Type E 4 Neg 5 Not tested											
STOOL SPECIMEN(S) Direct Toxin Enrichment Organism											
:	Infant's		Direct Toxin Assay					Isolate			
Date Mo. Day Yr.	Date Age (Wks)			Ion-Specific Non Toxic Toxic 2 3		Non-Specific Toxic 2	Non Toxic 3	Yes No			
(289-294)	(295-296)			(297)			(298)		(299)		
(300-305)	(306-307)			(308)			(309)		(310)		
(311-316)	(317-318)			(319)			(320)		(321)		
(322-327)	(328-329)			(330)			(331)		(332)		
Date											
Specimen testing section completed by: Name Title											
Patient outcome (345) 1 Improving 2 Recovered 3 Death Mo. Day Yr. If patient died, date (346-351)											
Form Reviewed and Submitted	Form Reviewed and Submitted by: Name Title										
Name											
1			·								